VOLUME CONTENTS

Number 1

Y. V. S. N. Prasad and S. Narasimha Rao	1	Experimental Studies on Foundations of Compliant Structures—I. Under Static Loading
Y. V. S. N. Prasad and S. Narasimha Rao	15	Experimental Studies on Foundations of Compliant Structures—II. Under Cyclic Loading
S. Narasimha Rao and G. Rajasekaran	29	Lime Injection Technique to Improve the Behaviour of Soft Marine Clays
A. Huggins and A. R. Packwood	45	The Optimum Dimensions for a Long-range, Autonomous, Deep-diving, Underwater Vehicle for Oceanographic Research
R. H. Gutierrez, P. A. A. Laura and R. E. Rossi	57	The Method of Differential Quadrature and its Application to the Approximate Solution of Ocean Engineering Problems
L. N. Virgin and B. K. Erickson	67	A New Approach to the Overturning Stability of Floating Structures
Zai-Jin You	81	Eddy Viscosities and Velocities in Combined Wave–Current Flows
Technical Note *Rujian Ma*	99	The Application of Spectral Analysis to Nonlinear Random Vibrations
Technical Note *H. M. Badr*	105	Oscillating Inviscid Flow Over Elliptic Cylinders with Flat Plates and Circular Cylinders as Special Cases

Number 2

M. R. Haddara and S. K. Leung	115	Experimental Investigation of the Lift Component of Roll Damping
A. Kareem, A. N. Williams and C. C. Hsieh	129	Diffraction of Nonlinear Random Waves by a Vertical Cylinder in Deep Water
Keh-Han Wang and Xugui Ren	155	An Effective Wave-trapping System

S. W. Twu and C. C. Liu	179	The Elimination of Re-reflected Waves by a Porous Medium of Finite Thickness
Tai-Wen Hsu and Shan-Hwei Ou	195	On the Mass Transport of Water Waves in a Turbulent Boundary Layer
R. Srinivasaraghavan and G. Rajasekaran	207	Electro-osmotic Stabilization of Marine Clay with Chemical Piles
L. Meadows, G. Meadows, A. Troesch, S. Cohen, K. P. Beier, G. Root, O. M. Griffin and T. F. Swean Jr	221	Lagrangian Velocity Profiles in the Wake of a High Speed Vessel

Number 3

Y. Sun, J. W. Leonard and R. B. Chiou	243	Simulation of Unsteady Oceanic Cable Deployment by Direct Integration with Suppression
P. R. Payne	257	Recent Developments in "Added-mass" Planing Theory
Chung-Pan Lee	311	Dragged Surge Motion of a Tension Leg Structure
J. P. Hooft	329	The Cross-flow Drag on a Manoeuvring Ship

Number 4

Ken-Han Wang and Xugui Ren	343	Wave Interaction with a Concentric Porous Cylinder System
H. Mase, T. Sakai and M. Sakamoto	361	Wave-induced Porewater Pressures and Effective Stresses Around Breakwater
R. T. Hudspeth, T. Nakamura and Chong-Kun Pyun	381	Convergence Criteria for Axisymmetric Green's Function with Application to Floating Bodies
H. M. Badr	401	Oscillating Viscous Flow Over an Inclined Elliptic Cylinder

427 Books Received

429 News and Notices

Number 5

M. L. Nuckols and B. F. Courson 433 Heated Diver Decompression Shelter: the "Womb Concept"

A. R. Packwood and A. Huggins 445 Afterbody Shaping and Transition Prediction for a Laminar Flow Underwater Vehicle

Technical Note *A. H. Al-Rabeh* 461 Estimating Surface Oil Spill Transport due to Wind in the Arabian Gulf

Technical Note *V. Sundar, H. Noethel and K.-P. Holz* 467 Asymmetries in Waves and Velocities in a Groin Field

Technical Note *S. K. Chakrabarti and D. C. Cotter* 489 Tank Wall Effects on Broadside Current Forces on Barge Models

Technical Note *V. H. Cortinez and P. A. A. Laura* 499 Simple, Approximate Solution of Forced Vibrations Problems of Continuous Systems

Book Review *P. A. A. Laura* 505 *Computation of Fluid Motions in Multiply Connected Domains* by W. J. Prosnak

Number 6

G. D. Hahn 507 Influences of Wave Stretching on the Response of Wave-excited Offshore Platforms

A. N. Williams and T. Rangappa 519 Approximate Hydrodynamic Analysis of Multi-column Ocean Structures

D. Farmer and Ming Li 575 Oil Dispersion by Turbulence and Coherent Circulations

Shan Huang 587 Dynamic Analysis of Three-dimensional Marine Cables

Number 7

Jen-Men Lo, N. Al-Madani, M. A. Tayfun and D. Al-Ajmi	607	Estimation of Winds Over the Sea from Land-based Measurements
A. C. Demetracopoulos, C. Hadjitheodorou and J. A. Antonopoulos	629	Statistical and Numerical Analysis of Tsunami Wave Heights in Confined Waters
Songping Zhu and G. Moule	645	Numerical Calculation of Forces Induced by Short-crested Waves on a Vertical Cylinder of Arbitrary Cross-section
A. N. Williams	663	Froude–Krylov Force Coefficients for Bodies of Rectangular Section in the Vicinity of the Free-surface and Sea-bed
A. G. Abul-Azm	683	Diffraction through Wide Submerged Breakwaters Under Oblique Waves
	707	Books Received
	709	News and Notices

Number 8

C. Skotner, I. G. Jonsson and J. Skourup	711	Wave Forces on a Large, Horizontal Submerged Cylinder
A. K. Jain	733	Review of Flexible Risers and Articulated Storage Systems
M. H. Giménez, C. R. Sánchez-Carratalá and J. R. Medina	751	Analysis of False Waves in Numerical Sea Simulations
A. A. Pires-Silva and J. R. Medina	765	False Waves in Wave Records
G. Rajasekaran, S. Essaku and P. K. Mathews	771	Physico–Chemical and Mineralogical Studies on Cochin Marine Clays

M. R. Haddara, M. Wishahy and X. Wu 781 Assessment of Ship's Transverse Stability at Sea

Volume 21 Title Section, Contents and Author Index i